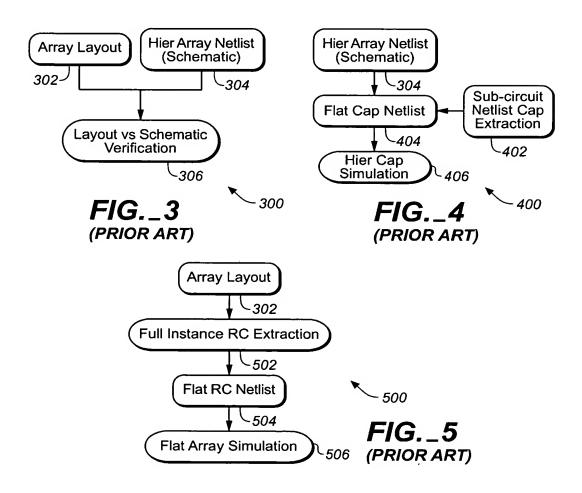
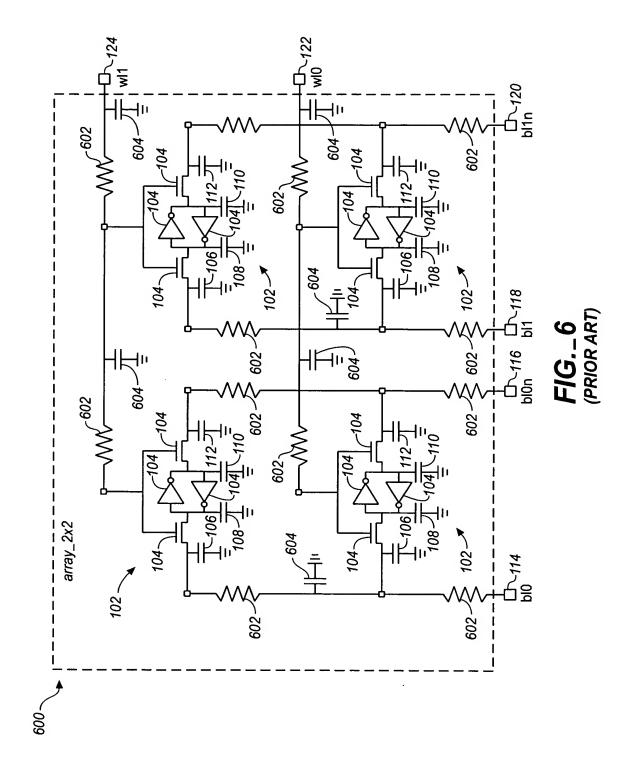


```
.subckt array2x2 wl0 wl1 bl0 bl0n bl1 bl1n
X00 wl0 bl0 bl0n core cell
X01 wl0 bl1 bl1n core_cell
                                               202
X10 wl1 bl0 bl0n core cell
Xl1 wl1 bl1 bl1n core cell
.ends
.subckt core cell wl bla blan
to bla wh n\overline{0} vss nm
tl blan wl nl vss nm
t2 n1 n0 vdd vdd pm
t3 n1 n0 vss vss nm
t4 n0 n1 vdd vdd pm
                                               204
t5 n0 n1 vss vss nm
cpl bla vss
cp2 blan vss
cp3 wl vss
cp4 n0 vss
cp5 nl vss
                                                     200
.ends
```

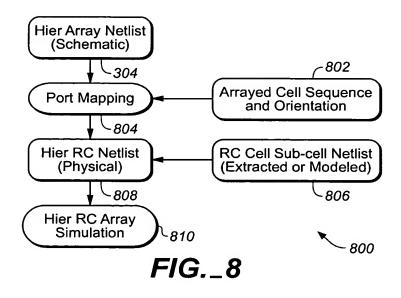
FIG. 2 (PRIOR ART)





```
.subckt array2x2 wl0 wl1 bl0 bl0n bl1 bl1n
t00 n2 n1 n4 vss nm
t01 n3 n1 n5 vss nm
t02 n5 n4 vdd vdd pm
t03 n5 n4 vss vss nm
t04 n4 n5 vdd vdd pm
t05 n4 n5 vss vss nm
t06 n7 n6 n9 vss nm
t07 n8 n6 n10 vss nm
t08 n10 n9 vdd vdd pm
t09 n10 n9 vss vss nm
t10 n9 n10 vdd vdd pm
tll n9 nl0 vss vss nm
t12 n12 n11 n14 vss nm
t13 n13 n11 n15 vss nm
t14 n15 n14 vdd vdd pm
t15 n15 n14 vss vss nm
t16 n14 n15 vdd vdd
                    рm
t17 n14 n15 vss vss
                    nm
t18 n17 n16 n19 vss nm
t19 n18 n16 n20 vss
t20 n20 n19 vdd vdd
                    pm
t21 n20 n19 vss vss
                    nm
t22 n19 n20 vdd vdd pm
t23 n19 n20 vss vss nm
r00 wl0 n1
c00 nl vss
r01 n1 n11
c01 nl1 vss
r02 wl1 n6
c02 n6 vss
                               - 700
.ends
```

FIG._7 (PRIOR ART)



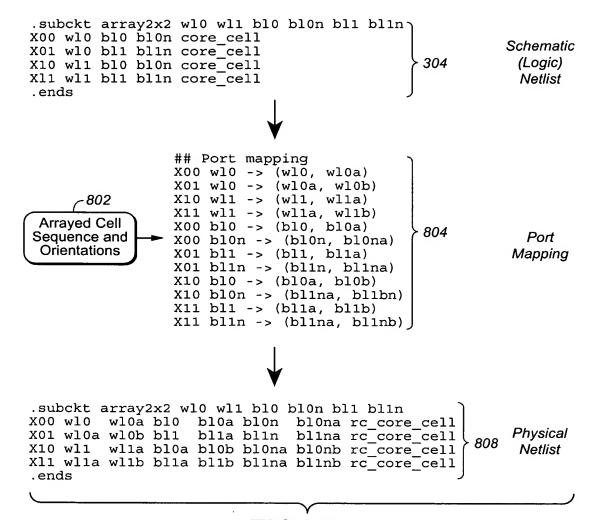


FIG._9

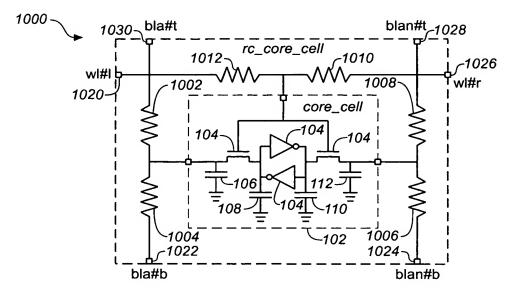


FIG._10

```
.subckt rc_core_cell wl#r wl#1 bla#b bla#t blan#b blan#t
r1 wl#r wl
r2 wl#1 wl
r3 bla#b bla
r4 bla#t bla
r5 blan#b blan
r6 blan#t blan
x1 wl bla blan core_cell
.ends
```

FIG._11

```
.subckt array2x2 wlo wl1 bl0 bl0n bl1 bl1n X00 wlo wloa bl0 bl0a bl0n bl0na rc_core_cell X01 wl0a wl0b bl1 bl1a bl1n bl1na rc_core_cell X10 wl1 wl1a bl0a bl0b bl0na bl0nb rc_core_cell X11 wl1a wl1b bl1a bl1b bl1na bl1nb rc_core_cell .ends
```

FIG._13

-1300

